

International VLBI Service for Geodesy and Astrometry

Coordinating Center
NASA Goddard Space Flight Center
Code 61A.1
Greenbelt, MD 20771
USA

E-mail: ivsc@lists.nasa.gov
Tel: +1-301-614-5939
Web: <https://ivsc.gsfc.nasa.gov>



September 29, 2022

Mamoru Sekido
NICT Headquarters
4-2-1 Nukui-Kitamachi
Koganei, Tokyo 184-8795
Japan

Dear Mamoru:

The IVS Directing Board thanks you for your very important contribution to the International Terrestrial Reference Frame 2020 (ITRF2020). The ITRF is a global reference which serves as the basis for many areas in surveying, land management, and geophysics. A global reference frame allows you to connect observations which are separated in space and/or time. The ITRF is crucial to monitoring such things as sea-level rise, land subsidence, and climate change.

The ITRF is a combined product with inputs from DORIS, GNSS, SLR, and VLBI. The IVS contribution to ITRF2020 is a major effort of the entire IVS community. This includes past and present station personnel who are responsible for taking the data, correlator personnel who correlated the data, analysts who did the initial data processing, and the many scientists responsible for the current submission.

As a result of your hard work and contribution, the ITRF2020 has now become reality. As recognition of that, the IVS is pleased to present you a certificate, honoring your role in this very auspicious occasion. We thank the *NICT Kashima Space Technology Center* for your part in this effort and hope that you will display the accompanying certificate in a prominent location.

With best regards,

IVS Directing Board

International VLBI Service for Geodesy and Astrometry

IVS Directing Board Members:

Rüdiger Haas, Sweden (*ERS Representative, Chairman*)
Dirk Behrend, USA (*Coordinating Center Director*)
Johannes Böhm, Austria (*IAG Representative*)
Patrick Charlot, France (*IAU Representative*)
John Gipson, USA
Anastasia Girdiuk, Germany
David Hall, USA
Hayo Hase, Argentina
Nancy Kotlary, USA

Chester Rusczyk, USA
Nadia Shuygina, Russia
Yu Takagi, Japan
Oleg Titov, Australia
Gino Tuccari, Italy
Pablo de Vicente, Spain
Stuart Weston, New Zealand
Aletha de Witt, South Africa

CERTIFICATE

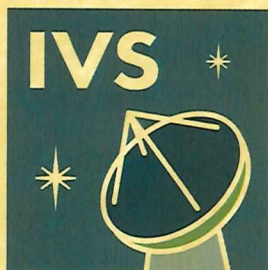
awarded to

NICT Kashima Space Technology Center

from the International VLBI Service for Geodesy and Astrometry

in recognition of contribution to the

**INTERNATIONAL TERRESTRIAL REFERENCE FRAME
2020**



A handwritten signature in blue ink that reads 'Rüdiger Haas'. The signature is written in a cursive style and is positioned above a horizontal line.

Rüdiger Haas, IVS Directing Board Chair

On behalf of the IVS Directing Board

July 2022